Link Parameters	Units	36M0G7W
Uplink frequency	GHz	6.18
Downlink frequency	GHz	3.95
Modulation		QPSK
Carrier bandwidth	kHz	36000
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	83.9
Earth station diameter	m	6.1
Earth station gain	dBi	50.1
Uplink input power per carrier	dBW	33.8
Uplink input power density	dBW/Hz	-41.7
Atmospheric loss	dB	0.1
Free space path loss	dB	200.2
G/T satellite (-3 dB contour)	dB/K	0.9
C/N thermal uplink	dB	38.3
C/I XPOL, ACI, ASI	dB	25.9
C/(N+I) uplink	dB	25.6
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	40.1
Atmospheric loss	dB	0.1
Free space path loss	dB	196.3
Earth station antenna pointing loss	dB	0.3
Earth station diameter	m	3.7
Earth station gain	dBi	41.9
Earth station G/T	dB/K	21.9
C/N thermal downlink	dB	19.1
C/I XPOL, ACI, IM, ASI	dB	16.4
C/(N+I) downlink	dB	12.4
Overall:		
C/(N+I) overall	dB	12.2
C/(N+I) required	dB	6.5
Margin	dB	5.7